

FIG. 1

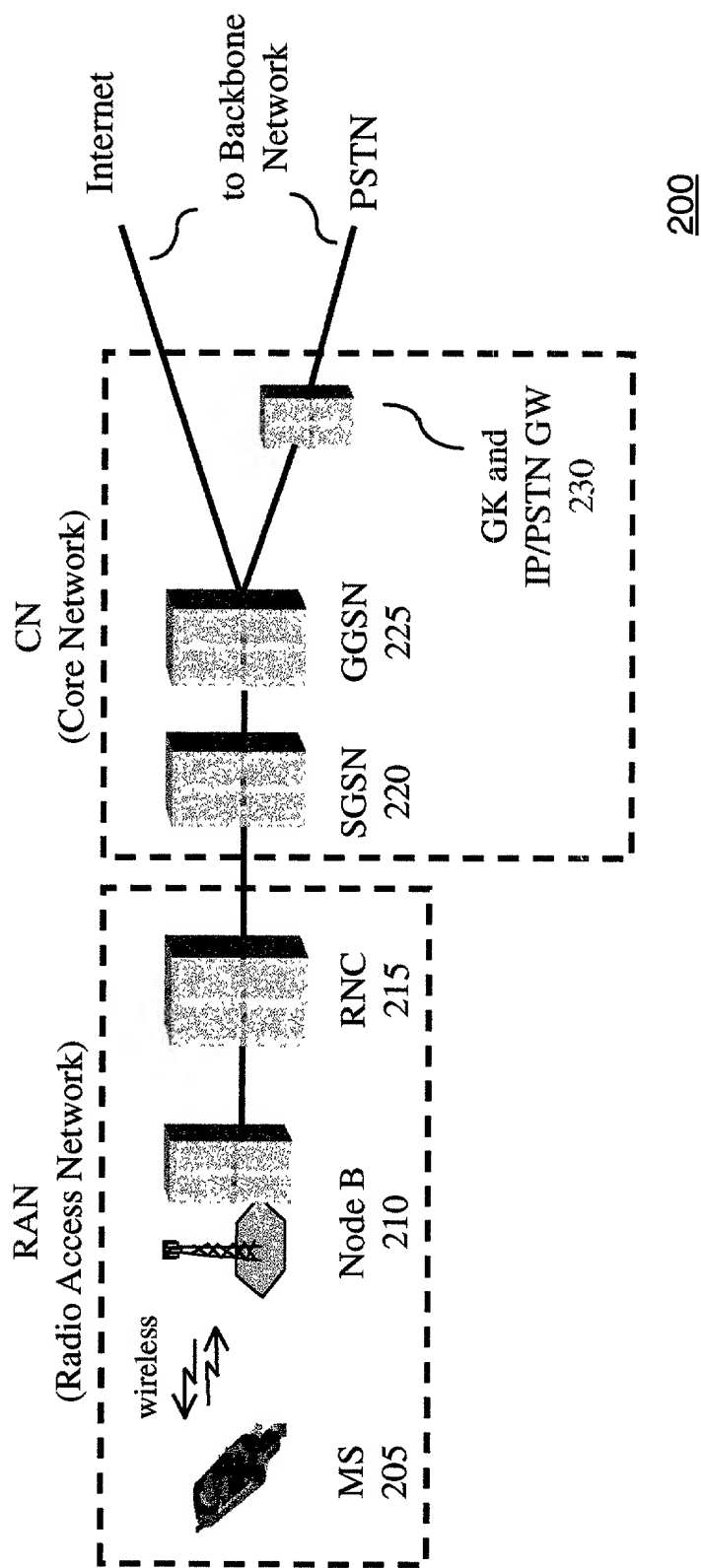


FIG. 2

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QoS IE								300			
8	7	6	5	4	3	2	1	Octet 1			
Quality of Service IEI								Octet 2			
Length of Quality of Service IE								Octet 3			
0	0	Delay Class				Reliability Class		Octet 4			
spare								Octet 5			
Peak Throughput		0				Precedence Class		Octet 6			
0	0	0	spare					Octet 7			
spare		Mean Throughput						Octet 8			
Traffic Class		Delivery Order				Delivery of erroneous SDU		Octet 9			
Maximum SDU size								Octet 10			
Maximum Bit Rate for uplink								Octet 11			
Maximum Bit Rate for downlink								Octet 12			
Residual BER		SDU error ratio				Traffic Handling		Octet 13			
		Transfer delay				Priority					
Guaranteed bit rate for uplink											
Guaranteed bit rate for downlink											

FIG. 3

Packet Data Protocol (PDP) Context Activation Procedure

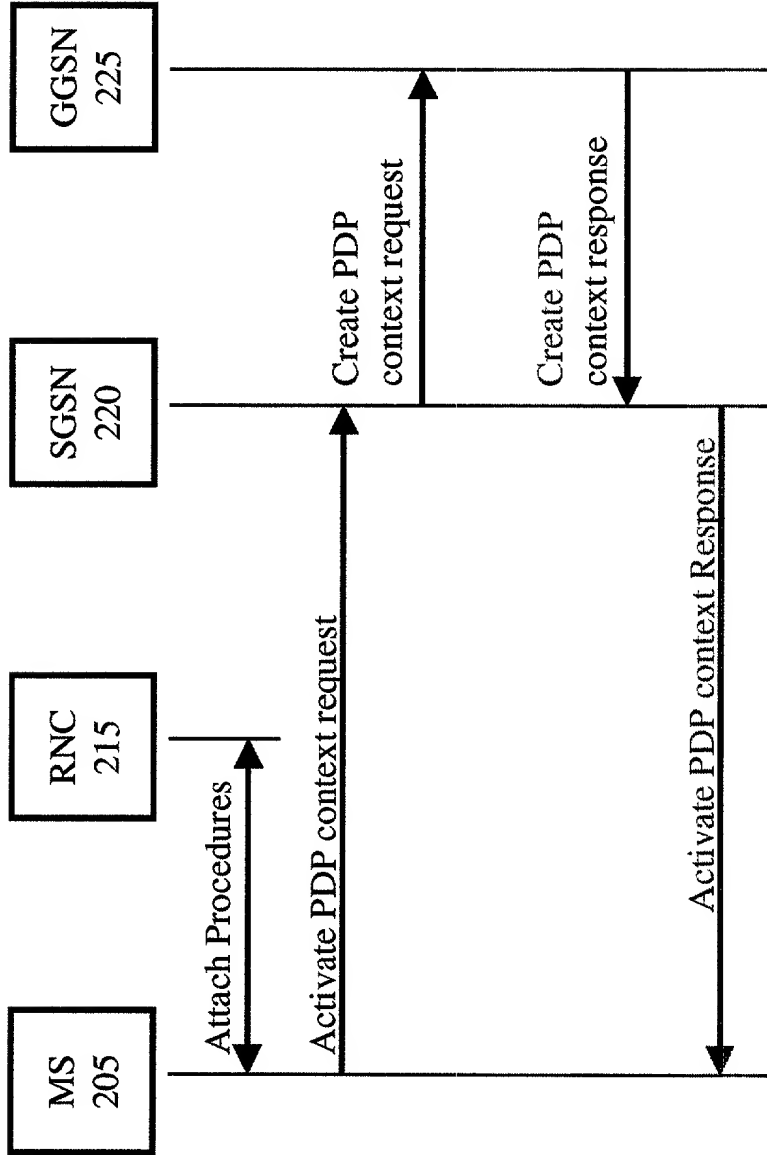


FIG. 4

Asymmetric QoS IE  
400

8	7	6	5	4	3	2	1	
Quality of Service IEI								Octet 1
Length of Quality of Service IE								Octet 2
0	0	Delay Class			Reliability Class			Octet 3
Peak Throughput		0		Precedence Class				Octet 4
		spare						Octet 5
D	T	R	Mean Throughput					Octet 6
Downlink Traffic Class		Downlink Delivery Order		Downlink Delivery of erroneous SDU				Octet 7
Maximum SDU size								Octet 8
Maximum Bit Rate for uplink								Octet 9
Maximum Bit Rate for downlink								Octet 10
Downlink Residual BER		Downlink SDU error ratio						Octet 11
Downlink Transfer delay				Traffic Handling Priority				Octet 12
Maximum Desired Guaranteed bit rate for uplink								Octet 13
Maximum Desired Guaranteed bit rate for downlink								Octet 14
Minimum Desired Guaranteed bit rate for uplink								Octet 15
Minimum Desired Guaranteed bit rate for downlink								Octet 16
Uplink Traffic Class		Uplink Delivery Order		Uplink Delivery of erroneous SDU				Octet 17
Uplink Residual BER		Uplink SDU error ratio						Octet 18
Uplink Transfer delay								Spare

FIG. 5

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<i>D bit</i>	Traffic Class Field Value	Traffic Class
0	000	Subscribed traffic class/Reserved
0	001	Conversational
0	010	Streaming
0	011	Interactive
0	100	Background
0	101	Reserved
0	110	Reserved
0	111	Reserved
1	000	Subscribed traffic class/Reserved
1	001	Conversational
1	010	Streaming
1	011	Interactive
1	100	Background
1	101	First try Streaming, then Interactive
1	110	First try Interactive, then Background
1	111	First try Streaming, then Interactive, then Background

FIG. 6 Chuah 53

Asymmetric QoS IE								500	
8	7	6	5	4	3	2	1		
Quality of Service IEI								Octet 1	
Length of Quality of Service IE								Octet 2	
U	0 spare	Delay Class		Reliability Class				Octet 3	
Peak Throughput		0 spare		Precedence Class				Octet 4	
D	T	R	Mean Throughput					Octet 5	
Downlink Traffic Class		Downlink Delivery Order		Downlink Delivery of erroneous SDU				Octet 6	
Maximum SDU size								Octet 7	
Maximum Bit Rate for uplink								Octet 8	
Maximum Bit Rate for downlink								Octet 9	
Downlink Residual BER		Downlink SDU error ratio		Traffic Handling				Octet 10	
Downlink Transfer delay				Priority				Octet 11	
Maximum Desired Guaranteed bit rate for uplink								Octet 12	
Maximum Desired Guaranteed bit rate for downlink								Octet 13	
Minimum Desired Guaranteed bit rate for uplink								Octet 14	
Minimum Desired Guaranteed bit rate for downlink								Octet 15	
Uplink Traffic Class		Uplink Delivery Order		Uplink Delivery of erroneous SDU				Octet 16	
Uplink Residual BER		Uplink SDU error ratio						Octet 17	
Uplink Transfer delay				Spare				Octet 18	

FIG. 7 Chuah 53

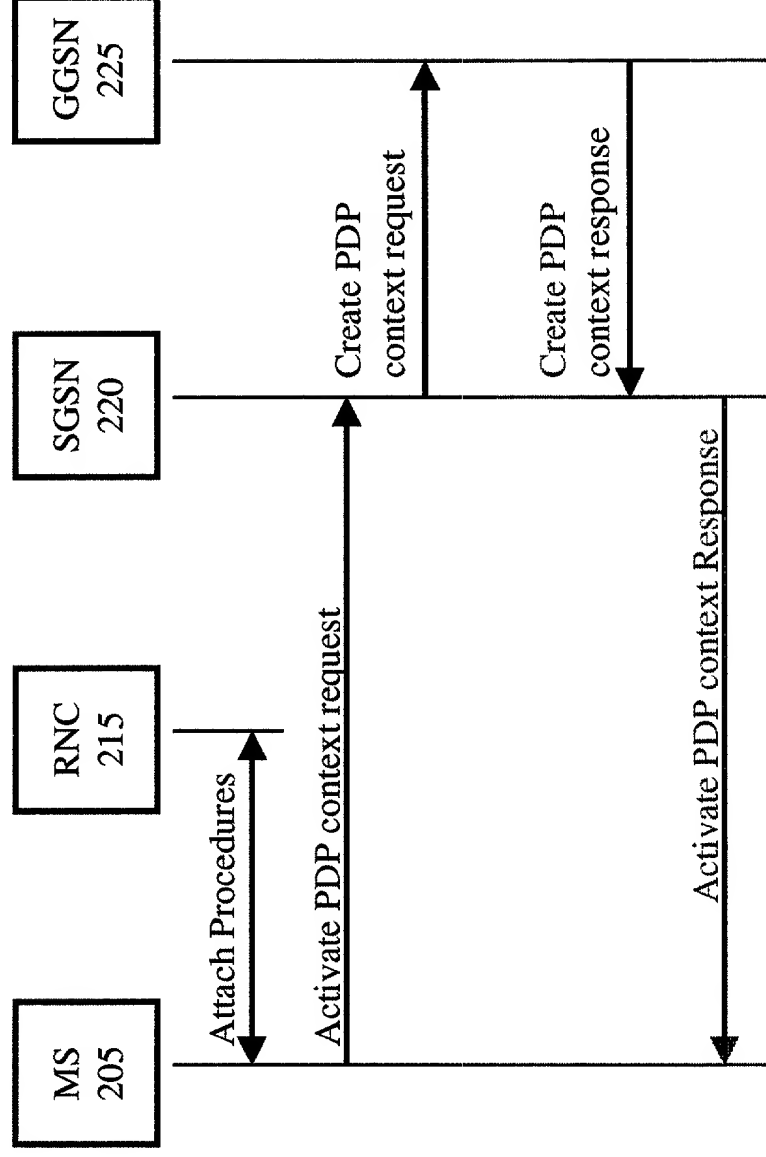
<i>U bit</i>	<i>D bit</i>	Traffic Class Field Value	Traffic Class
0	0	000	Subscribed traffic class/Reserved
0	0	001	Conversational
0	0	010	Streaming
0	0	011	Interactive
0	0	100	Background
0	0	101	Reserved
0	0	110	Reserved
0	0	111	Reserved

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1	0	101	Interactive to Streaming
1	0	110	Best Effort to Interactive
1	0	111	Best Effort to Streaming, else to Interactive

FIG. 8

Packet Data Protocol (PDP) Context Activation Procedure  
with asymmetric QoS IE



*Asymmetric QoS negotiation*



